MATSEYKO, Yuriy Mikhaylovich [Matseiko, IU.M.], kend.istor.nauk; DZHEDZHULYA,
A.O., kend.istor.nauk, red.; GANUSETS, O.I. [Henusets', O.I.], red.

[Present stage of economic cooperation among socialist countries]
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KAPITAL'NYY, V.G.; RYENIKOV, A.N.

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Instituta epidemilogii i mikrobiologii imeni N.F. Gamalei AMN SSSR.

(ANTIBIOTICS)

(BACTERIA)

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(PHEUMOCOCCAL INFECTIONAL (HEAT.-PHYSIOLOGICAL EFFECT)
(PENICILLIN)

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Effect of a series of antibiotics on febrile reactions to pyrogenal in rabbits. Antibiotiki 6 no.5:417-418 My '61. (MIRA 14:7)

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(ANTIBIOTICS)

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(ANTIBIOTICS) ADREMAL CORTEX)
(CYTOTOXIC DRUGS)

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(MIPA, 15:3)

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PZHEROKABAYEV, O. She

Dynamics of the disappearance of bacterial lipopolysaccharide from the blood and formation of endogenic serum pyrogen in normal and thyroidectomized rabbits. Biul. eksp. biol. i med. 59 nc.6:40 42 Jul 165. (MIRA 18:6)

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DORDZHIYEV, B.S.; KIRBASOVA, M.B.; MUSHANOV, S.P.; MANZHIKOVA, R.M.; CHERNOUSOV, I.P.; KIYEVSKAYA, V.I.; DZHELACHINOV, E.B., red. GAYDASH, Ya., tekhm. red.

[Economy of the Kalmyk A.S.S.R.; statistical collection] Narodnoe khoziaistvo Kalmytskoi ASSR; statisticheskii sbornik. Elista, Kalmytskoe knizhnoe izd-vo, 1960. 107 p. (MIRA 14:8)

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(Kalmyk A.S.S.R.—Statistics)

ACC NR. AP6010463

(M,A)

SOURCE CODE: UR/0375/66/000/003/0014/0022

AUTHOR:

Dzhelaukhov, Kh. M. (Major general)

ORG: none

TITLE: Economic potential in a modern war

SOURCE: Morskoy sbornik, no. 3, 1966, 14-22

TOPIC TAGS: economic warfare, economics, military strategy

ABSTRACT: Defining economic potential as the totality of the potentiality of a country to extract and produce some quantity of material goods to meet the diverse demands of a state, the author declares that the main index of the economic potential of any country is the per capita production of the basic types of goods. The economic potential also includes the existing financial system with gold and currency reserves, various material reserves including those of strategic raw materials, the organization of the economic structure which permits its reorganization in the case of war, the supply (distribution) system, economic relations with friendly countries, etc. However, the meaning of economic potential in a modern war cannot be fully understood without defining the concept of military economic potential. The author defines military economic potential as the aggregate of the potentialities of all basic branches of the national economy to meet the needs of the armed forces during peace and es-

Card 1/2

ACC NR: AP6010463

pecially during war until its completion. The military economic potential includes branches of the economy that are directly engaged in the production of military goods and material and technical means intended for meeting the requirements of armed forces. Having defined these concepts the author proceeds to analyze these various factors and states that the military economic potential and its intimate relation with the moral and political factor play a decisive role in achieving victory. With equal or commensurable economic potentialities of the warring sides (coalitions) superiority is achieved by that side which has a progressive social and economic structure and is waging a justifiable war. Political goals have a substantial effect on the mobilization of the military economic potentialities of a given country and ultimately on the course and outcome of the war. In conclusion the author emphasizes that the creation of the material and technical base of communism, the rapid growth in the rate of production of material goods in the Soviet Union and in other socialist countries, the advancing development of energetics, machine construction and metalworking, the chemical industry, i.e., branches determining technical progress in the national economy, improvement in modern means of transportation and communication, and an increase of agricultural products are extraordinarily expanding the Soviet Union's economic potentialities and are a reliable guarantee of providing the armed forces with material means for waging a modern war if, contrary to common sense, aggressors wage an attack. Orig. art. has: 4 tables.

SUB CODE: 15,05/ SUBM DATE: none

Card 2/2

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nauk; DZHELALI, Nadezhda Ivanovna, nauchnyy sotr.;
LUZHETSKAYA, Lyudmila Grigor'yevna, nauchnyy sotr., agronom;
SHIBKO, Vladimir Andreyevich, nauchnyy sotr., agronom;
ZLENKO, G., red.; MOLCHANOVA, T., tekhn. red.

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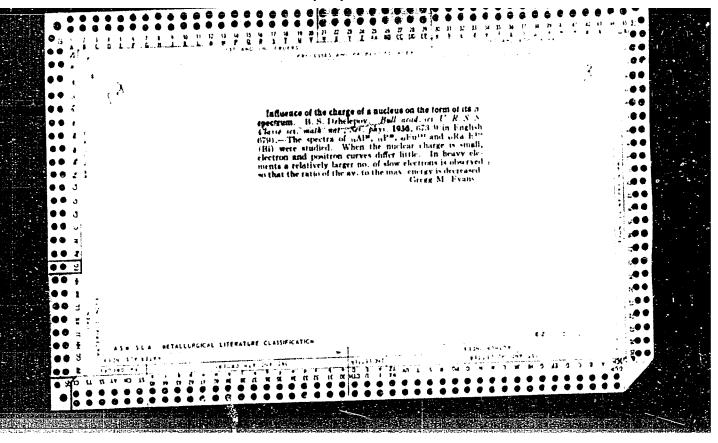
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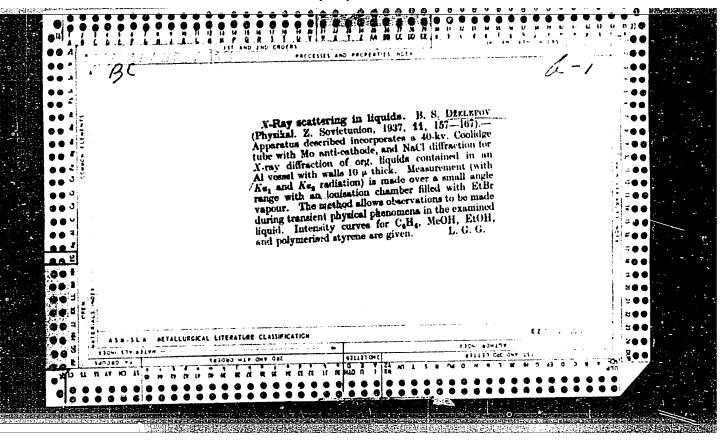
Physical-Technical Institute, Leningrad.

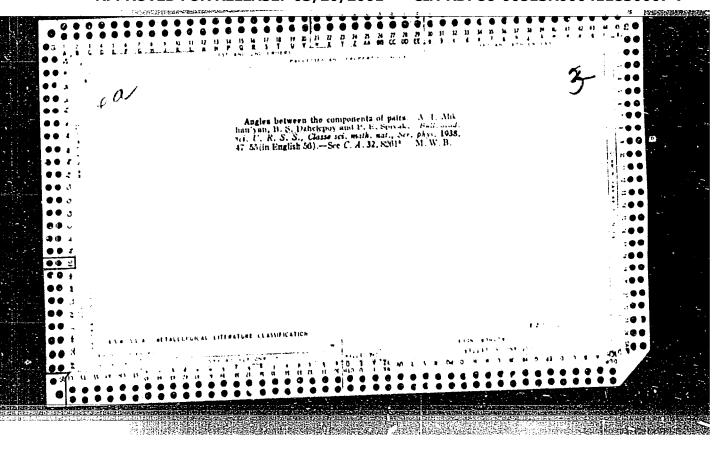
DZHELEPOV 8.5. DVELEPOV, B.S., ALICHANIAN, A.I., and ALIGHANOV, A.I.

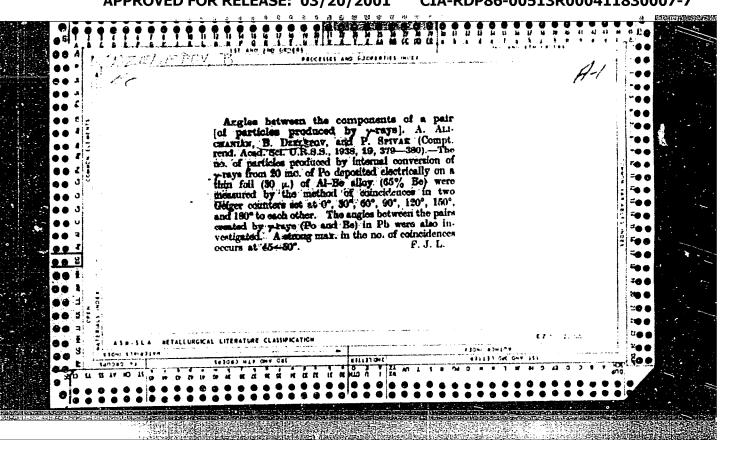
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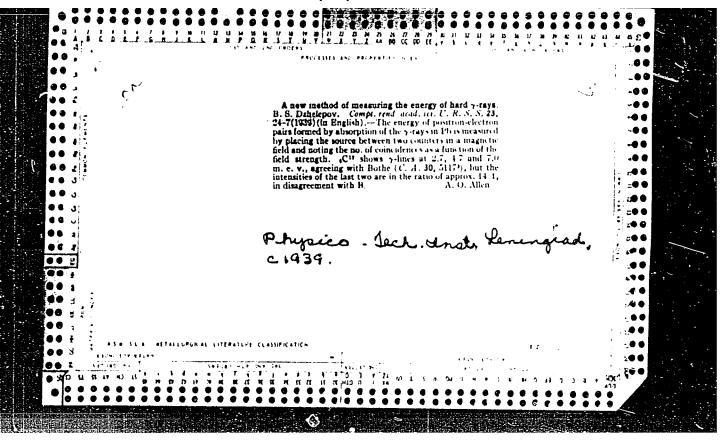




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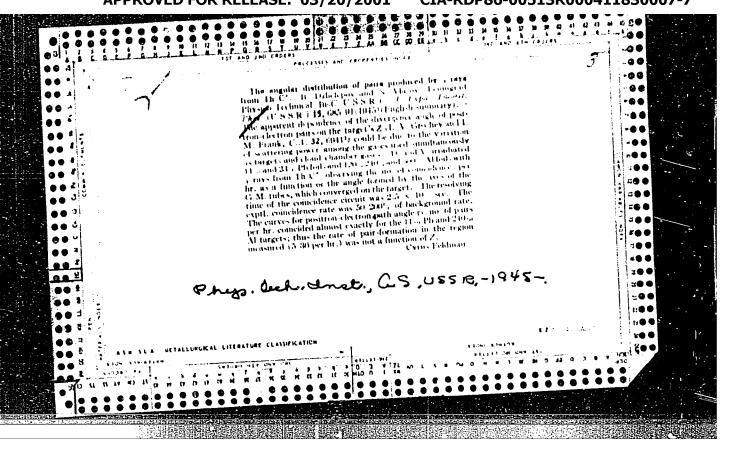
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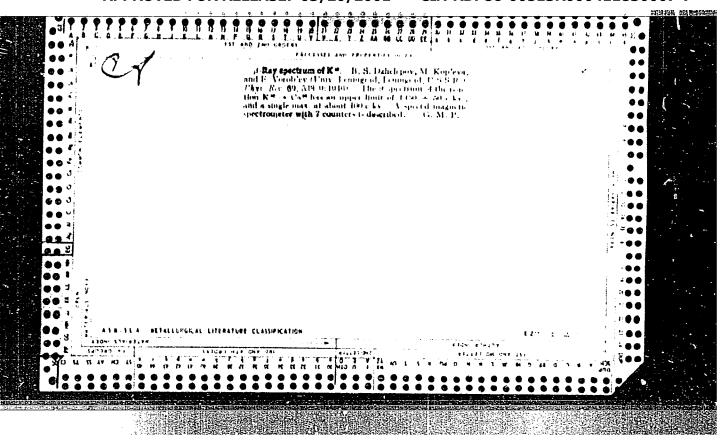


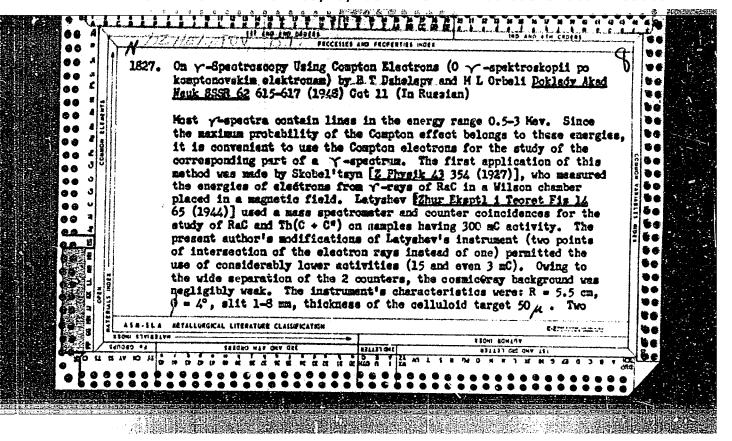
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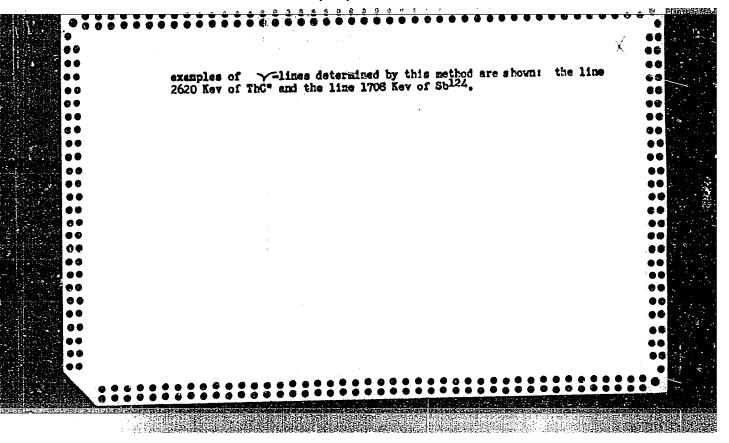
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Critical review (45 references), carriving at the nonclusion that it cannot be decided as yet whether the mass of the neutrino is rigorously zero of Metsoen a and 0.15 times the mass of the electron. (CA)







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PA 35/49T87

USSR/Nuclear Physics - Atomic Nuclei - Sep 48
Disintegration of

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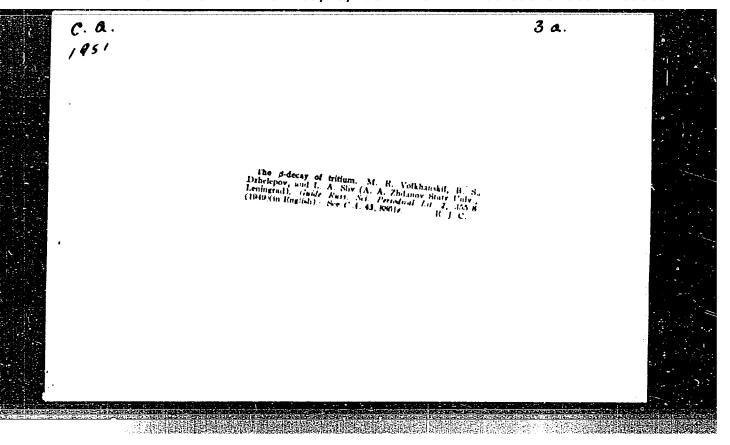
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Attempts to apply Fermi's formula for the relation between decay constant and decay energy for Maximuclei. In these nuclei, during beta-decay a proton is replaced by a neutron, and remainder of the nucleus contains same number of protons and neutrons. Submitted by Acad P. I. Lukirskiy, 29 Jun 48.

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35/49187



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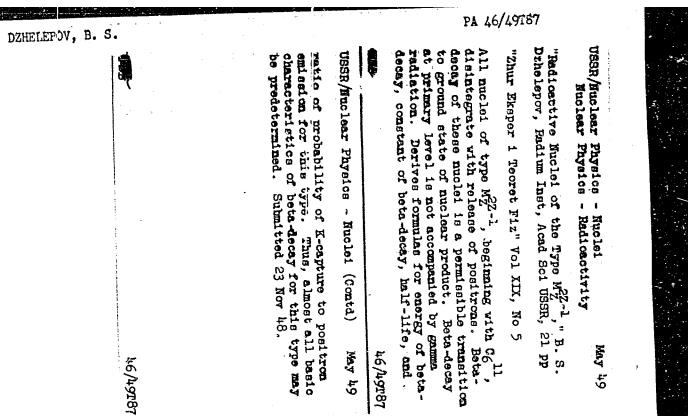
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62/39196

DZHELEPOV, B. S.

WOT THE PATTORY -- PARTOR

USSR/Nuclear Physics - Beta Decay

Sep 49

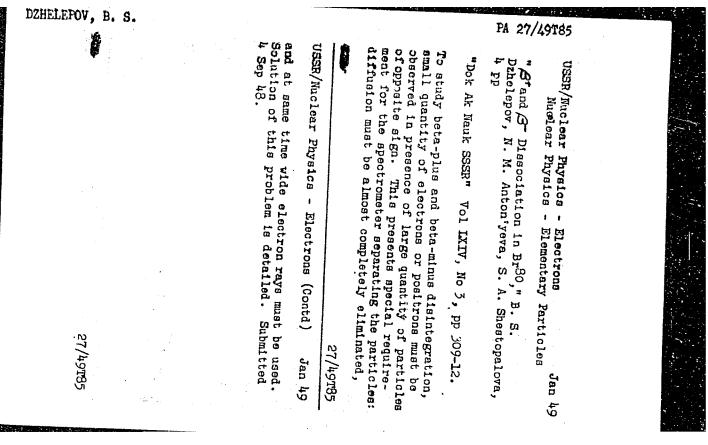
"Tables on Beta-Decay: I, the tf Products," E. S. Drhelepov, A. V. Kudryavtseva, Leningrad State U, 23 pp

"Zhur Eksper i Teoret Fiz" Vol XIX, No 9, pp 761-33.

Selected most reliable data available on decay periods, boundaries of spectra, and type of decay for 313 beta-active substances. Used this data to calculate the tf products. Submitted 4 May 49.

62/49196

DZHELEPOV, B. S.	USSR/Nucleer "The tf Produ B, S. Dzheler "Thur Eksper pp 784- Staring calcul beta-active a lyzes the dismagnitude. (itles observe mirror (1som into A and B of members of the correctn the correctn the correctn
62/1/979	Bep 19 ExDecay," L1 pp No 9, S for all data, ana- according to r of regular- f tf for ct division beta-spectra 1 confirm 62/49797 ontd) Sep 19 Submitted



DZHELEPOV, B. S.

USSE/Physles Spectrum Analysis Gold

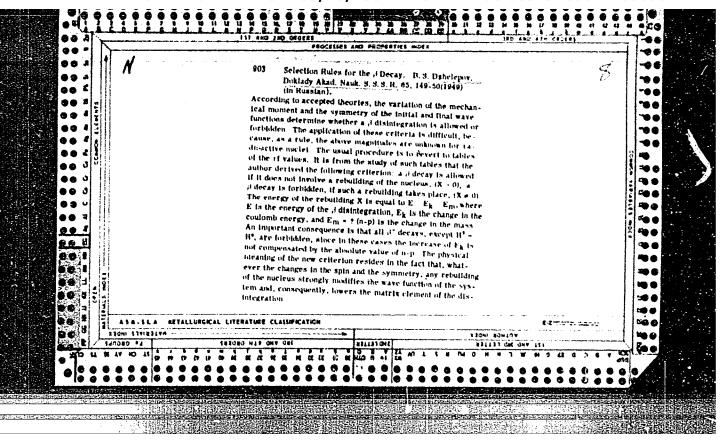
Feb 49

P - Spectrum of Amiles B. S. Babelepov, A. L. Beshilov, A. V. Zolotavin, E. E. Anton'yeva, Sei Res Phys Inst, Leningred State U, 3 pp

"Dok Ak Rook SSSE" Vol LXIV, So 6, pp 803-5.

Studied the B-spectrum of $k\pi^{1/2}$, using a new magnetic spectrometer with improved focus ($\phi = y_{1/2}$, p = 3 ($\pi^{4/2}/p = 1$ f). Results correlated well with those of dn Hood and Hatson. Submitted \sim food P. I. Lukirskiy, 10 Oct 43.

PA 29/49199



DZHELIPOV, 3. S.

USSR/Huclear Physics - Beta-Decay Eaclear Physics - Hydrogen Isotope Jun 49

"The Problem of Seta-Disintegration of H³," H. Ye. Voyhanskiy, B. S. Dehelepov, L. A. Sliv, Leningrad State 6 imeni A. A. Zhdanov, J pp

"Dok Ak Nauk SSSA" Vol LAVI, No 5, pp 829-32.

All "mirror" nuclei, type M form a campach group of permissible beta-emitters; their theory concerns properties of type H₂ beta-emitters, upper limits of which change from 18 keV to 5,000 keV and the period from one second to 4.10 seconds.

Submitted by Acad P. L. Lukirskiy, 18 Apr 49.

PA 50/49187

DZHELEPOV, B. S.	PA 173789
Problem of polarization of 2-annihilation quanta can be proved by exptl tests, as described here, with lead block, C ₁ and C ₂ counters, radisting source, and aluminum cones. Submitted by Acad Lukirskiy 2 Jul 49. 10 11 173789	USER/Nuclear Physics - Gamma Rays 21 Dec 49 "Polarization of Annihilation Gamma-Quanta," N. A. Vlasov, B. S. Dzhelepov "Dok Ak Nauk SSER" Vol LXIX, No 6, pp 777-780

DZHELEFOV, B. S.		PA 187T82	× .
	USSR/Physics - Electron Microscope (Contd) scope (Contd) solid angle of capture $\mathcal{P}=30^{\circ}$ and $\mathcal{E}=\pm 3^{\circ}$. Inner of conversion electrons of femiliar 198 gamma-rays of Th(B+C+C'+C"), RaC and Au 198 are taken as the std. Submitted 24 Apr 50 at session of the Dept of Physicomath Sci, Acad Sci USSR.	USSR/Physics - Electron Micro- scope "Ketron, the Magnetic Spectrometer With Improved Focusing." B. S. Dzhelepov, A. A. proved Focusing." B. S. Dzhelepov, A. A. proved Focusing. Fiz Ak Nauk SSSR, Ser Fiz Wol-XII, No. 3, pp 264-298 Authors describe the ketron, an instr constructed by them, which uses inhomogeneous transverse magnetic fild decreasing in one direction. Give results of controlled measurements of std electron lines for resolving power 0.5% and for 187762	かく かいきょう きゅうかい かあい はいかい かいしゅう ないしい はんしゅう しゅうしゅ しゅうしゅう しゅうしゅう アイト・ディー・ディー・ディー・ディー・ディー・ディー・ディー・ディー・ディー・ディー

DZHELEFOV, B. S. USSR/Neclear Physics - Gamma Rays

May/Jun 50

"Radiation of Aul98, Hol66and Lul77, "N. M. Anton'yeva, A. A. Bashilov, B. S. Dzhelepov, A. V. Zolotavin, Sci Res Phys. Inst, Leningrad State Univ.

"Iz Ak Nauk SSSR, Ser Fiz" Vol XIV , No 3, Pp 299-318

Discribes results of studying conversion rasiation of Au¹⁹⁸, Ho¹⁶⁶ and Lu¹⁷⁷ as measured by the "ketron, " a spectrometer with improved focusing (of Per Abs 187782). Beta-spectrum of Au¹⁹⁸ was found to be simple; spectra of Ho¹⁶⁸ and Lu¹⁷⁷, complex. Computes assumed half life of Ho¹⁶⁶. Submitted 24 Apr 50 at session of the Dept of Physicomath Sci, Acad Sci USSR.

Pa 187T68

Zhurnal Eksperimental Meoreticheskoi Fiziki, 1950, Vol. 20, Nol 2, 1950

בי יים יים יים והיים אוים והיים ו

"On the Question of the Fine Structure of The Y-Lines of Rag:" by G.D. Latyshev. Correction to the arricle by B. Dzhelepov and A.V. Kudryavtseva (Zh. Eskp. Teor. Fiz., 1949, 19,). Z.Zavelskmi.

DZHELEYCV, B.

FA 161T112

USSR/Nuclear Physics - Nuclei, Atomic Apr 50

"Table of Atomic Nuclei," B. Dzhelepov, S. Petrovich, 95 pp.

"Uspekh Fiz Nauk" Vol XL, No 4

Includes 85-page table of atomic nuclei, giving: atomic number (1 to 97), stable nuclei, prevalence, half life, conversion types (alpha, beta, gamma, neutron, K-conversion), energy of alpha and beta in Mev, energy of gamma rays in Mev, and nuclear reactions. Bibliography lists sources of information, mainly non-Russian.

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DZHELEPOV, B.

168162

USSR/Ruciten Physics - Helium

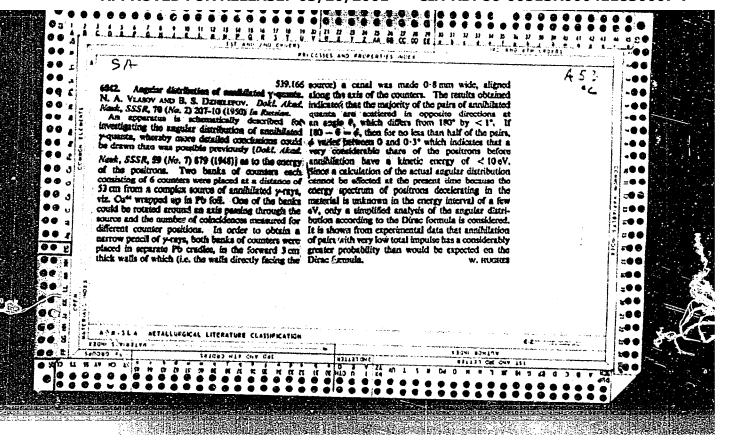
Jun 50

"Radioactive Helium Isotopes," K. Artemov, B. Dzhele-

"Uspekh Fiz Nauk" Vol XLI, No 2, pp 189-210

Comprehensive survey of available literature on He⁵ and He⁶. Discusses reactions Li⁷ + H² = He⁴ + Ha³; He³ + H = He⁴ + Ha³; He³ and He³ + He⁴ + He³; He³ and He³ + He⁴ + He⁴; He³; He³; He³; Li⁵; Li⁶; Li⁶

168162



DZHELIPOV, B. S.

USSR/Nuclear Physics - Beta-Spectrum Isotope

Jan 50

"Beta-Spectrum of Ho¹⁶⁶," N. M. Anton'yeva, A. A. Bashilov, B. S. Dzhelipov, A. V. Zolotavin, Phys Inst, Leningrad State U imeni A. A. Zhdanov, 4 pp

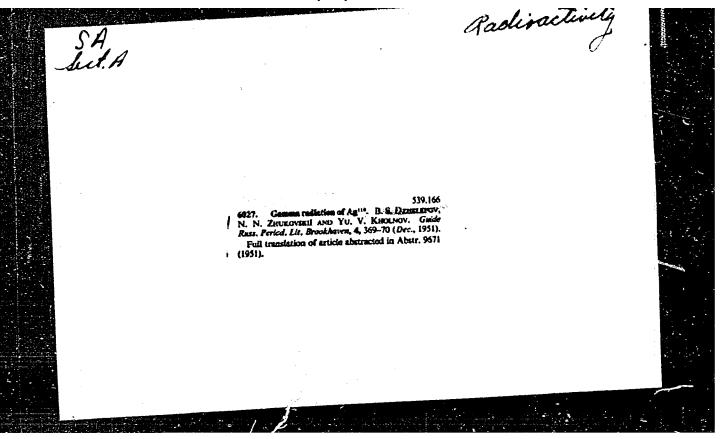
"Dok Ak Nauk SSSR" Vol LXX, No 3

Used magnetic spectrometer with improved focusing to study beta-spectrum of Ho¹⁶⁶. Thin layer of Ho₂O₃, irradiated by neutrons and deposited on strip of cigarette paper, was electron source. Electron radiation of Ho¹⁶⁰ consists of continuous beta-spectrum with limit of about 1,840 kev and intense group of slow electrons less than 100 kev. Submitted 21 Sep 19 by Acad P. I. Lukirskiy.

158T80

"Beta Spectrum of Lu¹⁷⁷," Dok.AN., 70, Not. 4, 1950...

Physics Inst., Ak.A. Zhdanov Leningrad State U., -c1950-.

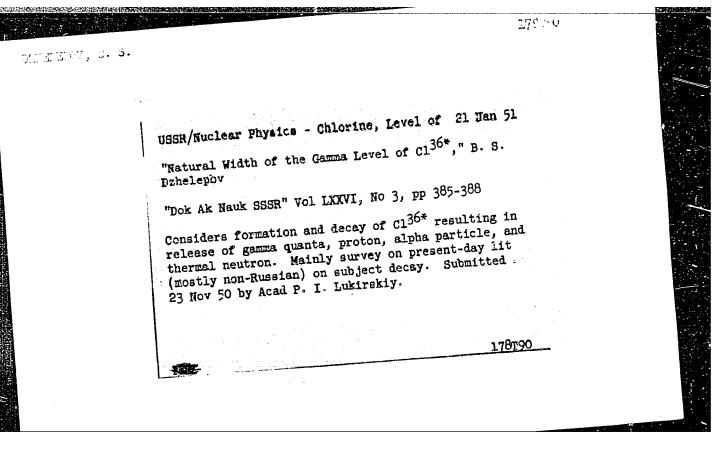


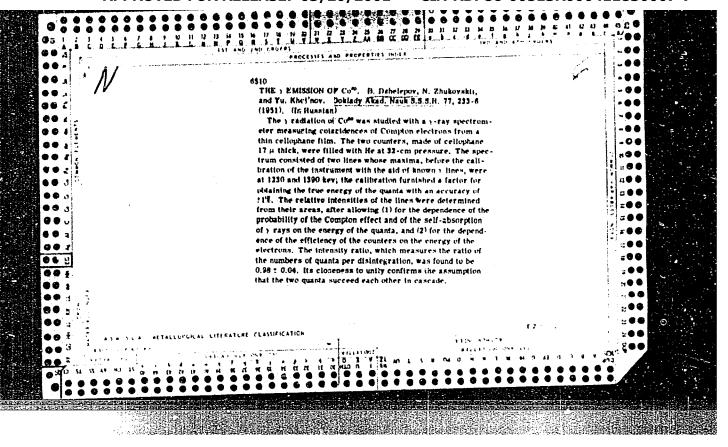
DZHELEPOV, B. S.	195163	USSR/Nuclear Physics (Contd) Jul/Aug 51 of types N + 2p and N + 2n is now possible for 5 pairs and measuring methods were reported by author at a seminar of Sci Res Inst of Phys, Leningrad State U, 2 Oct 50.	"Iz Ak Nauk SSSR, Ser Fiz" Vol XV, No 4, pp 496-504 ""Mirror" nuclei are isobars of types N + p, N + n, where N is "residue nucleus" with equal number of protons (p) and neutrons (n). Such nuclear pairs differ in mass according to difference in Coulomb energy and to mass difference (p - n), indicating that binding energy of proton or neutron to residual nucleus is the same. Comparison of nuclear masses	USSR/Nuclear Physics Jul/Aug 51 Mirror Huclei of Higher Order, " B. S. Dzhelepov
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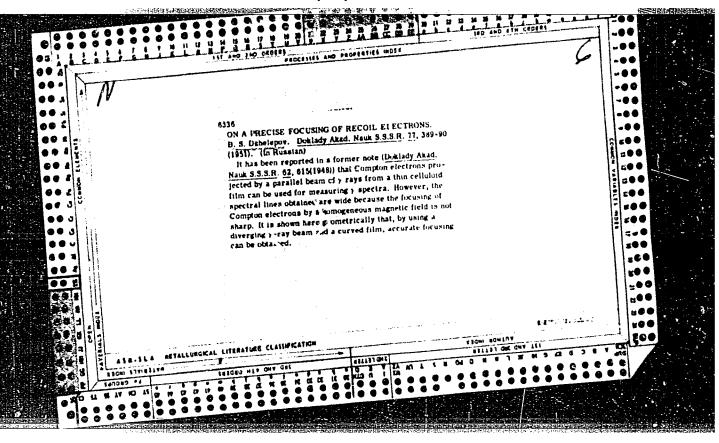
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DZHELEPOV, B.S.	
Tables on 8-decomposition. II Effect of the Control	
(Leningrad State Univ.) Zhiya and L. N. Zyryanova	
Tables on B-decomposition. II. Effect of the Coulomb field on s-spectra. B. S. Dehelepon and L. N. Zyrvanova (Leningrad State Univ.). 2Nth Ekript. I Teoret. Fiz. 21, 923-41(1951).—Excerpts from the tables of values for 8. decay are given for the value of R.E. Z), which describes the effect of the Coulomb field on the form of \$\beta\$-spectra. The value of F(E, Z) was calcul, by means of an approx. formula developed earlier (Hulme, C.4. 26, 911). It pages of tables. J. Roytar Leach	
value of $F(E,Z)$ was calcd, by means of expectra. The	
developed earlier (Hulme, C.4, 26, 911). 14 pages of	044
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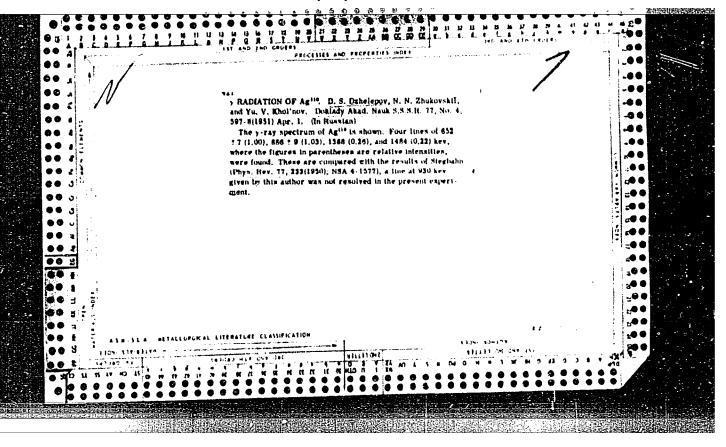
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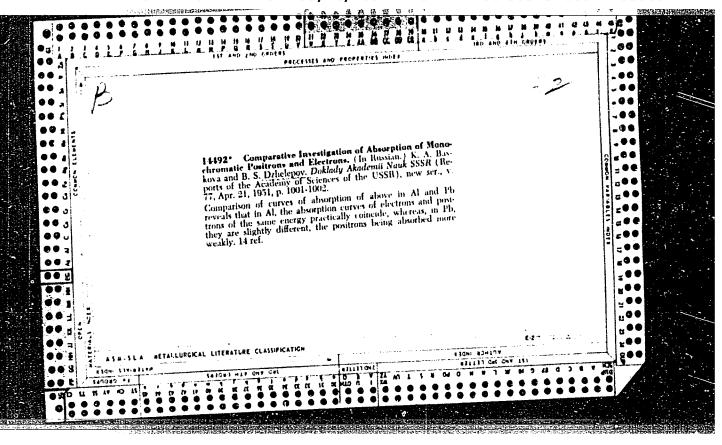
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Patronicor, p. 5.

May-Jun 52

USSR/Nuclear Thysics - Beta -Spectrum of Ir

"The Beta-Spectrum of Ir 192," A. A. Bashilov, N. M. Anton'yeva, B. S. Dzhelejov

"Iz Ak Mauk SSSR, Ser Fiz" Vol 16, No 3, pp 264-305

The empth data in this report was heard 14 Feb 51 in the Acad Sci USSR. Discusses the general knowledge concerning the radioactive isotope Ir 192; the spectrometer used and the conditions coverning the measurements; general appearance of the beta-spectrum of 192 of Irl92; comparison of the results of the measurements of the beta-spectrum of Irl92 with the data of various authors mostly foreign; the spectrum of the electrons of internal conversion of Ir¹⁹² and their conversion lines and energy lines; the spectrum of electrons of spectrum of electrons of conversion of gam a-rays of Ir¹⁹² according various authors; the gamma-radiation of Ir¹⁹² according to the data of various authors; seltrons and the capture of atomic electrons; the scheme describing the local of Ir¹⁹². The scheme describing the local of Ir¹⁹². The scheme describing the local of Ir¹⁹². The scheme describing the local of Ir¹⁹².

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USSR/Nuclear Physics - Nuclear Masses Dec 52

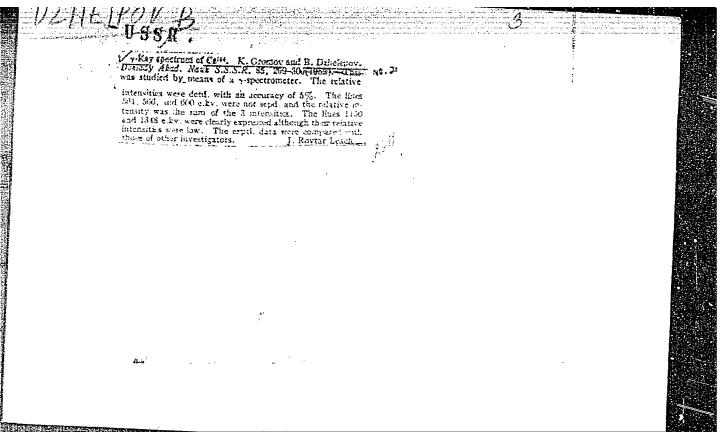
"Masses of Light Nuclei," B. S. Dzhelepov and L. N. Zyryanova

"Uspekhi Fiz Nauk" Vol 48, No 4, pp 465-530

Reviews the exptl data published up to Mar 1952. Discusses the principles governing processing of data. Presents complete tables of nuclear masses for atomic numbers Z up to 20. 455 references appended, which are all Western.

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DZHELEPOV, B.				235188	
	(PA 56 no. 671:7890 (3)	N. H. Zhukovskiy, Yu. V. Khol'nov, and K. Gromov. Submitted by Acad P. I. Lukirskiy 14 May 52.	Investigates the gamma-ray spectrum of Br82 with the aid of the Radium Institute's gamma spectrometer ("ritron"), which was described by B. S. Dzhelepov and M. Orbeli ("Dok Ak Nauk SSSR" Vol 62, 615, 1948). Gives a table showing the energy and intensity of the gamma rays of Br82 in comparison with foreign results. Acknowledges assistance of 235788	USSR/Physics - Gamma-Spectrum of Br82 - 21 Jul 5 "The Gamma-Ray Spectrum of Br82," B. Dzhelepov, A. Silant'yev, Radium Inst, Acad Sci USSR "Dok Ak Nauk SSSR" Vol 85, No 3, pp 533-535	



DZHELEFOV, B.				and the second of the second section is	100
Danibility Ov, D.				235198	
	2351798	curve of current strength in an electromagnet versus number of coincidences per unit of time. Submitted by Acad P. I. Lukirskiy 2 Jul 52.	"Fok Ak Nauk SSSR" Vol 86, No 2, pp 255-258 By means of the gamma spectrometer that employs the Compton electron, the authors investigate gamma radiation of subject antimony isotope, under conditions similar to those of the investigation of gamma spectra of Co ⁶⁰ and Agll ⁰ in 1951 by the authors. The source of gamma rays was activated metallic antimony in the amt of 0.7 gram. Discuss exptl	USSR/Physics - Gamma Radiation 11 Sep 52 "Gamma Radiation of Sb ¹²⁴ ," K. Gromov, B. Dzhelepov, N. Ehukovskiy, A. Silant'yev, Yu. Khol'nov	

DZHELEPOV, B. S.

USSR/Muclear Physics - Garma Radiations

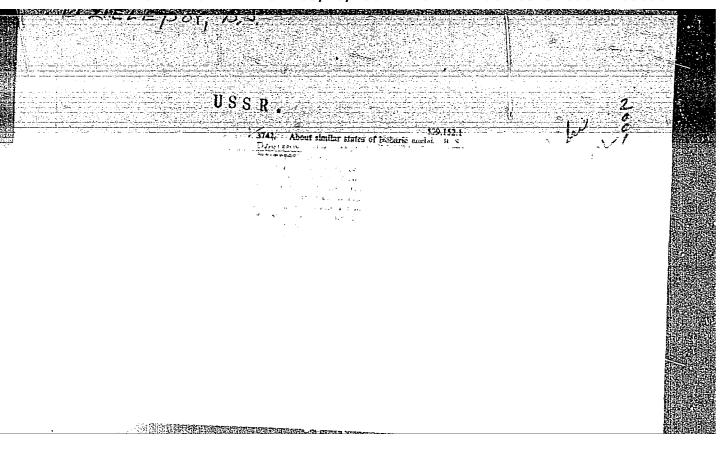
21 Sep 52

"Garra Radiation of Fe59, "B. S. Dzhelepov, N. N. Zhukovskiy, Yu. V. Kholnov, Radium

DAM USSR, Vol 86, No 3, pp 497-499

Gamma radiation of Fe59 was investigated by means of gamma spectrometer using recoil electrons. Operating conditions were similar to those used in previous works by authors (DAN 77, 233 and 597 (1951); DAN 83, 3 (1952). Results of expts showed that a target of cellophane 200 thick may be used for 1-MeV rays, because the scattering of electrons distorts little the shape of spectrum lines and does not affect their intensity. Presented by Acad P. I. Lukirskiy 2 Jul 52

PA 21,7T100



DZHELE CV. B.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

Neme

Dzhelepov, B. S.

Title of Work

of articles)

Research on the beta and gamma spectra of radioactive substances (series

Rominated by

Radium Institute, Academy of Sciences USSR

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SO: W-30604, 7 July 1954

DZHELEFOY, B. S.

USSR/Nuclear Physics - Nuclei, Jul/Aug 53
Isobaric,
Review of

"Similar States of Isobaric Euclei," B. S. Dzhelepov, Phys Inst, Leningrad State U im Zhdanov

Is Ak Nauk, Ser Fiz, Vol 17, No 4, pp 391-410

Attempts to establish laws of energy at specified conditions in coupling of ground and excited states of isobaric nuclei. Reviews briefly his theory of mirror nuclei (DAN 62, 51 (1951); ZhETF 19 (1949); Izv AN, Ser Fiz 15 (1951)).

272143

Discusses theory of similar-state nuclei and concludes that their parity and mechanical moments and their isotopic spins are identical. One hundred references, mostly American, appended. Rec 4 Jul 53.

DZHELEPOV, B. S.

USSR/Nuclear Physics - Conversion Spectrum, RaD

"Conversion Spectrum of RaD," A. A. Bashilov, B. S. Dzhelepov and L. S. Chervinskaya, Phys Inst Leningrad State U im Zhdanov

Iz Ak Nauk, Ser Fiz, Vol 17, No 4, pp 428-435

Attempt to find experimentally more accurate relative intensities of conversional transition lines at 47.7 keV, to define coeff of conversion and the multipolarity of this transition. The number of conversion electrons was found to be 58 ± 3 and the transition $\Delta E = 46.7$ keV

272145

Jul/Aug 53

was found to have a magnetic dipole. Indebted to N. M. Anton'yeva and G. A. Kazina. Rec 20 Jun 53. Thirty, mostly foreign, references appended.

DZHELEPOV, B. S.

Jul/Aug 53

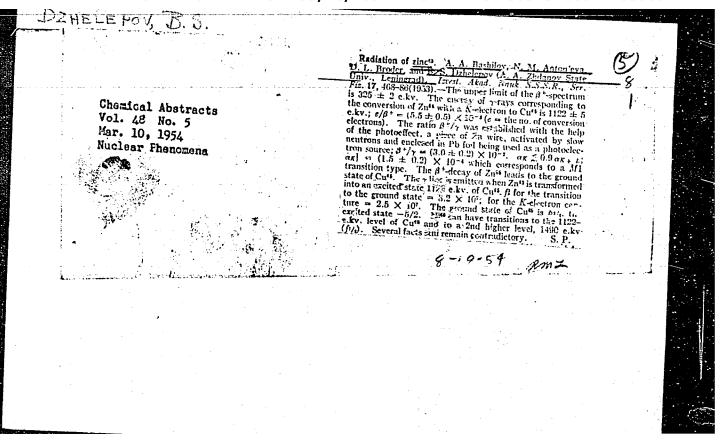
USSR/Nuclear Physics - Hf Isotopes

"Emission of Ef17; and Hf 181," A. A. Bashilov, N. M. Anton'yeva, B. S. Dzhelepov and A. I. Dolgintueva, Phys Inst, Leningrad State Univ im Zhannov

Iz Ak Nauk, Ser Fiz, Vol 17, No 4, pp 437 -467

Briefly review present knowledge of subject which they consider incomplete. Study emission of radioactive Hf175 and Hf181 irradiated by slow neutrons, and describe the schemes of decay of Hf175 and Hf181. Forty-three, references, mostly foreign. Rec 27 Jun 53.

272146



DZHELEPOV, B. S.

USSR/Nuclear Physics - Radioactive Re186

Jul/Mg 50

"Beta Spectrum of Rel86," N. M. Anton'yeva, A. A. Bashilov, B. S. Drhelepov and L. S. Chervinskaya, Phys Inst, Leningrad State U im Zhdanov

Iz Ak Nauk, Ser Fiz, Vol 17, No 4, pp 507-510

Studied emission of Rel86 seven days after irradiation and elimination of Rel85. Rel86 transmites into 0sl86 by beta-decay and into Wl85 by electron capture, releasing in both cases gamma rays. Half life of Rel86 was found to be 93 hours. Rec 16 July 53.

272150

DZHELEPOV, B. S.

USSR/Nuclear Physics - Cu, Gamma Emission Jul/Aug 53

"Gamma Emission of Cu^{OH}," B. S. Dzhelepov, N. N. Zhukovskiy, V. P. Prikhodtseva and Yu. V. Kholnov, Redio Inst, Acad Sci USSR

Iz Ak Nauk, Ser Fiz, Vol 17, No 4, pp 511-517

Studied in the gamma-spectrum of Cu⁶⁴ the line h? = 1.34 MeV, also observed by F. Kurie and M. Ter-Pogossian (Phys Rev 74,677 (1948)). Worked with gamma spectrometer, using recoil electrons. Obtained the same results as previously (DAN 86, 497 (1952)). Indebted to A. V. Kudryavtseva, L. N. Zyryanova and V. Chumin. Rec 9 Jul 53.

DZHELEPOV, B. S.

USSR/Nuclear Physics - Gamma-Spectrometer Jul/Aug 53

"Gamma Spectrometer With Improved Focusing," B. S. Dzhelepov, N. N. Zhukovskiy, A. S. Karamyan and S. A. Shestopalova, All-Union Sci-Res Inst of Metrology; Radium Inst, Acad Sci USSR

Iz Ak Nauk, Ser Fiz, Vol 17, No 4, pp 518-520

Attempt to improve resolution of gamma spectroscope described previously by Dzhelepov et al. (DAN 62, 613 (1948); 77, 233 (1951)). Because this spectroscope is based on recoil electrons, author named it "elotron." Indebted to V. Chumin and S. Rusinova. Rec 16 Jul 53.

272152

USSR/ Nuclear Physics

Card 1/1 Pub. 43 - 2/11

Authors

Bashilov, A. A.; Antonyeva, N. M.; Blinov, M. V.; and Dzhelepov, B. S.

Title

• Cs¹³⁴ radiation

Periodical : Izv. AN SSSR. ser. fiz. 18/1, 43-64, Jan-Feb 1954

Abstract

* The eta -spectrum and the spectra of conversion electrons and photoelectrons obtained from gamma-rays of a long-life Csl34 isomer were investigated. The measurements were carried out on several sources of different origin and having different surface densities. The general form of the Cs134 beta-spectrum obtained with a source having an average surface density is shown in one of the tables. The srectrum of conversion electrons was observed to consist of 14 limes corresponding to eight gamma-conversions. Data regarding the conversion intensities and interpretations of these data are given. In order to determine the relative intensities of gamma-lines the authors investigated the radiation of Cs134 by observing the abotoelectrons exhalled from the target. Twenty-nine references: 8-USR; 21-USA (1934-1952). Tables; graphs.

Institution: The A. A. Thdanov State University, Physics Institute, Leningrad

Submitted: November 30, 1953

VSSR/ Nuclear Physics

Card 1/1 Pub. 43 - 4/11

Authors

Dzhelepov, B. S.; Novosil'tseva, K. D.; and Tishkin, P. A.

Title

Formation of Rel66 during the bombardment of W with slow neutrons

Periodical: Izv. AN SSSR. ser. fiz. 18/1, 76-78, Jan-Feb 1954

Abstract : Experiments prove that the entrament of neutrons by Re, which is found among the substances usually attached to W, results in the formation of Rel88 with a spectrum limit of 2 mev and a very small life period of 16.9 hr. One of the stable tungsten isotopes (W188) is considered to be the basic source for the formation of Rel88. The beta-spectrum of the W185 plus W188 plus Rel88 compound derived after repeated extraction of Re from W was measured and the results obtained are given in graphs. The decomposition period for Rel88 was established. Three references: 2-USSR and 1-USA (1946-1951). Graphs.

Institution: The A. A. Zhdanov State University, Physics Institute, Leningrad

Submitted

: January 5, 1954

USSR/ Nuclear Physics - Radioactive decomposition

Card 1/1 Pub. 43 - 6/11

Authors

Bashilov, A. A.; Dzhelepov, B. S.; and Chervinskaya, L. S.

Title

1 Radioactive decomposition of Lal40

Periodical : Izv. AN SSSR. ser. fiz. 18/1, 88-92, Jan-Feb 1954

Abstract

The radioactive decomposition of the Lal40 isotope was investigated by means of a ketron-spectrometer having a non-uniform magnetic field and improved focus. Electron registration was carried out on a counter the window of which was covered with a collection layer with a surface density of ~0.25 mg cm-2. The semi-decomposition period for Lal40 was established and the experimental results obtained are tabulated. Eighteen references: 16-USA; 1-USSR and 1-German (1935-1951). Tables; graphs.

Institution: The A. A. Zhdanov State University, Physics Institute, Leningrad

Submitted: November 30, 1953

USSR/ Nuclear Physics - Spectral analysis

Card 1/1 Pub. 43 - 7/11

Authors

Antonyeva, N. M.; Bashilov, A. A.; Dzhelepov, B. S.; and Orlov, V. I.

Fitle : The beta-spectrum of P32

Periodical : Izv. AN SSSR. ser. fiz. 18/1, 93-94, Jan-Feb 1954

Abstract : The form of the heta-exectnum of the medicactive P32 isoton

The form of the beta-srectrum of the radioactive P³² isotope, obtained according to the reaction P³¹ (n.gamma) P³², was investigated by means of a magnetic ketron-spectroscope of high resolving power and by means of a conventional spectrometer with semi-circular focus in a homogeneous magnetic field with resolving power of 1.5%. The results regarding the form of the beta-spectrum are presented by a Curie curve. Data on the semi-decomposition period of the investigated radioactive phosphorous isotope are included. Ten

references: 2-USSR and 8-USA (1946-1952). Table; graph.

Institution: The A. A. Zhdanov State University, Physics Institute, Leningrad

Submitted : November 30, 1953

USSR/ Ruclear Physics - Spectroscopy

Card 1/1 Pub. 43 - 8/11

Authors

Dzhelepov, B. S.

Title

The role of rereated electron diffusion in different gamma-spectroscopy methods

Periodical : Izv. AN SSSR. ser. fiz. 18/1, 95-126, Jan-Feb 1954

Abstract

The method employed in calculating the angular electron distribution distortions, due to repeated electron diffusions, is described. The effect of repeated electron diffusion was evaluated on the basis of the F. Williams theory The ideas of the theory are explained. The role of repeated electron diffusion in various gamma-spectroscopy methods is discussed. A special instance is cited there the electrons diffuse in the very same target in which they originated. A method for the calculation of photoelectron diffusion is briefly described. Seven references: 5-USSR and 2-English (1939-1948). Tables; graphs; drawings.

Institution: Academy of Sciences USSR, Radium Institute

Submitted : December 15, 1953

EPOV. B.S.

USSR/Nuclear Physics

Card 1/2

Pub. 43 - 1/5

Authors

: Dzhelepov. B. S.

Title

I Isobaric spins and similar states of atomic nuclei

Periodical : Izv. AN SSSR. Ser. fiz. 18/5, 523 - 562, Sep - Oct 1954

Abstract

* Scientific data are presented regarding the isobaric spins of three known types of Tr -mesons (Tr, Tr, Jt-). All these particles have almost identical mass and their spin is apparently equal to 0. It was established that allow -mesons (pseudo-scalar particles) have uneven wave functions. No contradicting factors were found to show that all three TT -mesons do not represent three different charges states of one and the same particle. all these mesons strongly react with nuclei and this reaction at sufficiently high energies is of no electromagnetic nature. The probability of forming Or -mesons by stable gamma-quanta or fast nuclons was established for all three particles.

Institution:

Submitted:

September 30, 1954

Izv. AN SSSR. Ser. fiz. 18/5, 523 - 562, Sep - Oct 1954 Periodical:

Card 2/2 Pub. 43 - 1/5

The specific meson reaction forces of all three (77 -mesons with any Abstract: nuclon or nucleus are considered identical. One-hundred references: 11 USSR; 81 USA; 1 Canadian; 2 German; 3 Swiss and 2 English (1932-

1954). Tables; graphs; diagrams; drawings.

DZHELEPOV BS.

USSR/Physics .. Instruments

Card 1/

Pub. 43 - 5/5

Authors

: Dzhelepov. B. S.; Zhukovskiy. N. N.; and Khol'nov. Yu. V.

Title

: Ritron - gamma-spectrometer utilizing output electrons

Periodical : Izv. AN SSSR. Ser. fiz. 18/5, 599 - 624, Sep - Oct 1954

Abstract ...

t The Ritron-magnetic gamma-spectrometer described in this report can be used for the study of gamma-spectra of radicactive substances with energies of from 300 - 4000 kev. With respect to resolving power the instrument was found to be inferior to the gamma-spectrometer with improved focus "Elotron", however, it has a certain advantage over the former, namely, it utilizes only uniform magnetic fields which makes it possible to calculate the form of the spectral line, spectral sensitivity, luminosity and other properties of the instrument. Some results obtained by the application of the Ritron-spectrometer are listed. Twenty-seven references: 15 USSR; 1 Canadian; 1 English; 1 Dutch and 9 USA (1927 - 1954). Tables;

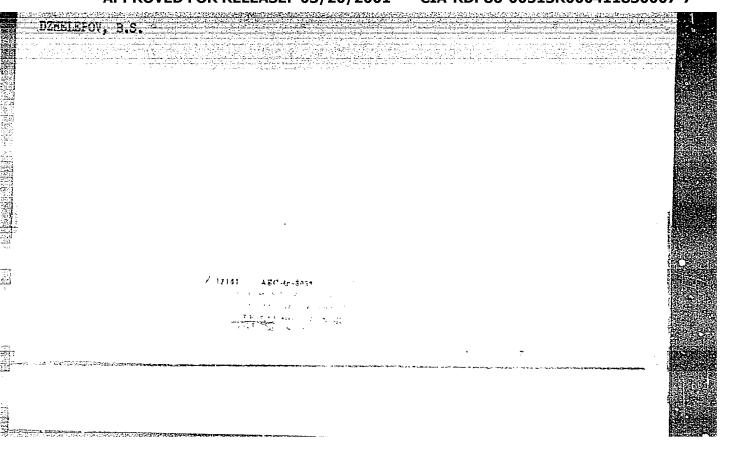
diagrams; drawings.

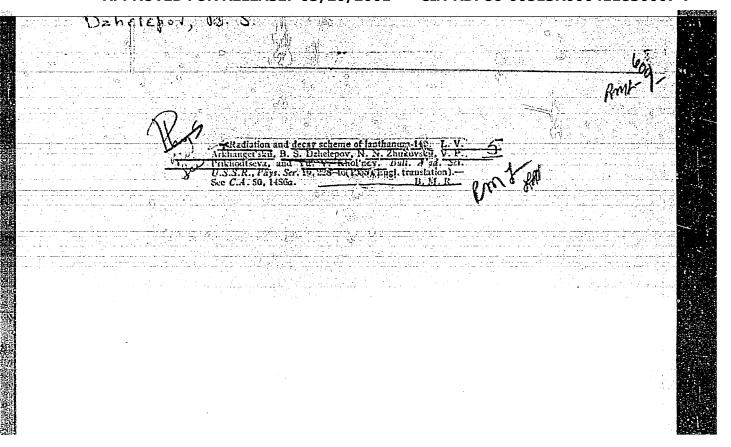
Institution: Academy of Sciences USSR, Radium Institute

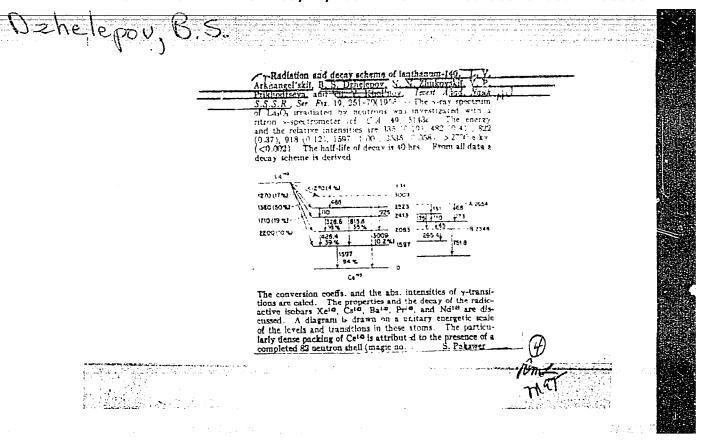
Submitted: October 4, 1954

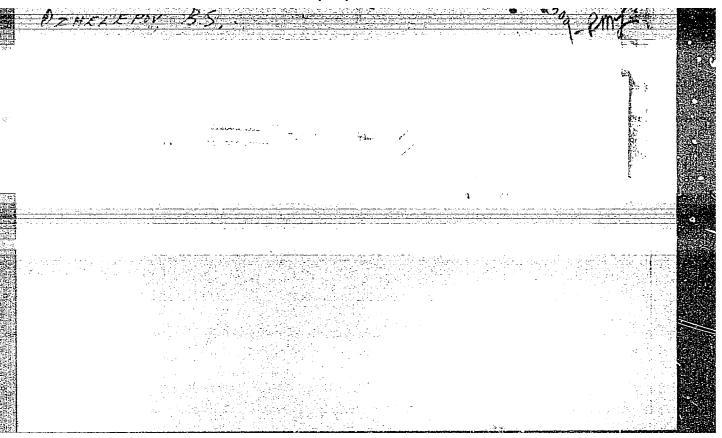
IOFFE, A.F.; LEBEDEV, A.A.; FOK, V.A.; STARIK, I.Ye.; KONSTANTINOV, B.P.;
DZHELZPOV, B.S.; PERFILOV. N.A.; DOBRETSOV, L.H.; STARODUBTSEV, A.V;
NEMILOV, YU.A.; ZHDANOV, A.P.; MURIH, A.N.; AGLIHTSEV, K.K.; TSAREVA, T.V.; SHUL'MAN, A.R.; YEREMEYEV, M.A.

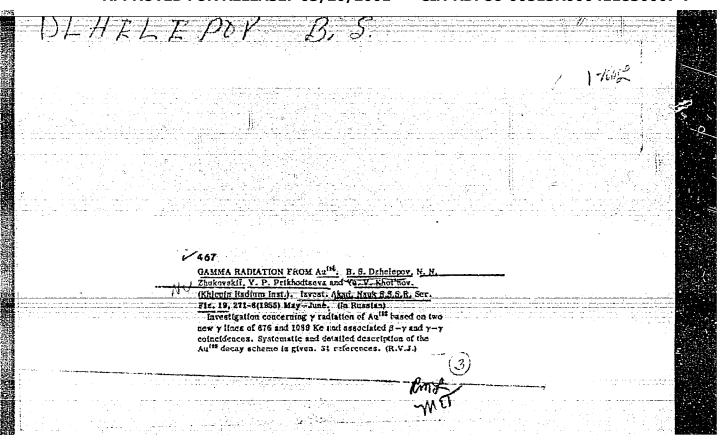
P.I.Lukirskii; obituary. Vest. AN SSSR 24 no.12:62 D '54. (MIRA 8:1) (Lukirskii, Petr Ivanovich, 1894-1954)

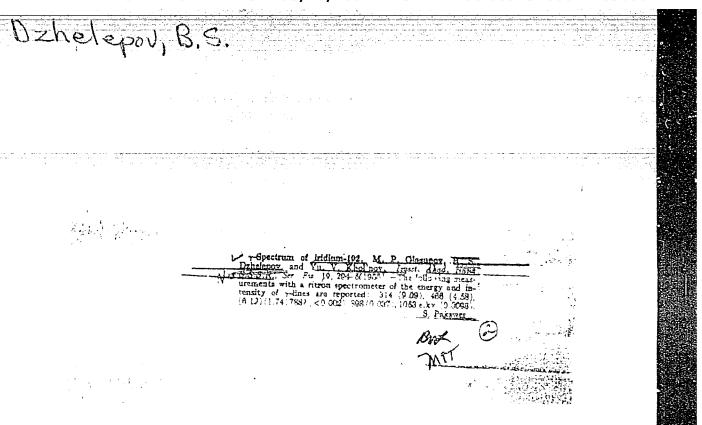


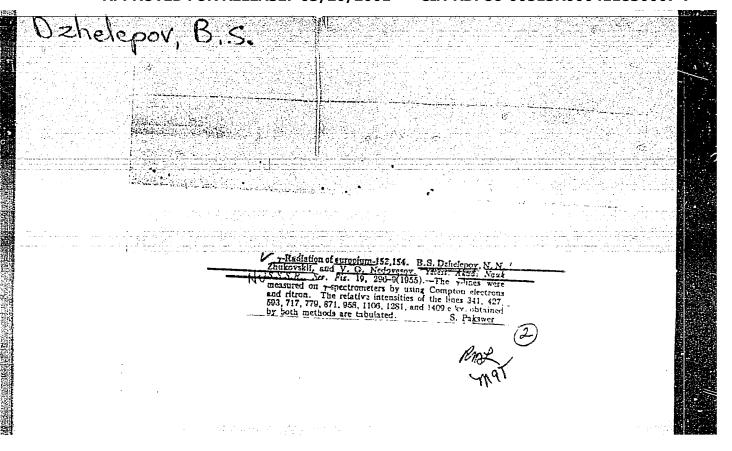












USSR/ Physics

Card 1/1

Pub. 22 - 11/51.

Authors

8 Dzhelepov, B., Member Correspondent of the Acad. of Sc., USSR

CONTRACTOR CONTRACTOR

About the natural width of the spectral lines of recoiled electrons

Periodicel : Dok. AN SSSR 101/5, 825-828, Apr. 11, 1955

Abstract

Experiments, conducted to determine the causes of the discrepancies between the calculated and observed widths of the spectral lines of recoiled electrons, are described. The experiments were conducted with the assumption that the spectrum line of an electron must have its two mapural width which does not mainly depend on the comparatively smell bond energy, but on the speed of atomic electrons which, e.g., for a K-electron of nitrogen atom is V=117x10° cm/sc (V= β_0 c, where β_0 =0.039 and c is the speed of light). Disregarding the natural width of the spectral line of a recoiled electron is considered the main cause of the mentioned discrepancies. Eight references: 4 USSR, 2 German and

2 USA (1942-1954). Diagrams; graph.
Institution: Acad. of Sc., USSR, Institute of Radiations

: December 6, 1954

DZHELEPOV, B.S.; ZYRYAHOVA, L.H.; ZENDEL', M.Ye., tekhnicheskiy redaktor

[Influence of the electric fiel of the atom on beta decay] Vliianie elektricheskogo polia atoma na beta-raspad. Moskva, Izd-vo Akademii nauk SSSR, 1956, 312 p. (MIRA 9:10) (Beta rays)

